Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-20018-09-03-14** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/97/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-14 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.9	–
2	Finess by Air permeablity method (m^2/kg,Min)	277.8	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-20018-09-03-14** **Date: 03-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/97/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-14 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-20018-09-03-14** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/97/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-14 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	253	253	1.7	98.3	90-100
3	20 mm	5527	5780	38.5	61.5	30-70
4	10 mm	5836	11616	77.4	22.6	10-35
5	4.75 mm	2846	14462	96.4	3.6	0-5
6	Pan	538	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-20018-09-03-14** **Date: 07-09-2018**

Sample ID No : 2018-09-03-14 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.3**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.50**	_
6	Water Absorption(%)	**0.12**	_

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-20018-09-03-14** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/97/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-14 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	137	137	2.7	97.3	90-100
3	10 mm	2783	2920	58.4	41.6	25-55
4	4.75 mm	1836	4756	95.1	4.9	0-10
5	Pan	244	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-20018-09-03-14** **Date: 07-09-2018**

Sample ID No : 2018-09-03-14 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-20018-09-03-14** **Date: 07-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-2018

Sample ID No : 2018-09-03-14 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-09-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	190	228	22.8	77.2	60-95	75-100	85-100	95-100
4	1.18 mm	203	431	43.1	56.9	30-70	55-90	75-100	90-100
5	600 micron	197	628	62.8	37.2	15-34	35-59	60-79	80-100
6	300 micron	123	751	75.1	24.9	5-20	8-30	12-40	15-50
7	150 micron	168	919	91.9	8.1	0-10	0-10	0-10	0-15
8	Pan	81	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-20018-09-03-14** **Date: 07-09-2018**

Sample ID No : 2018-09-03-14 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.79	_
2	Specific Gravity	2.55	_
3	Material finer than 75 micron(%)	7.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	149.69 X 149.43 X 150.20	22368	8.326	272.9	12.2	12.3
2	PCC	M15	10/09/2018	17/09/2018	150.31 X 151.89 X 150.77	22829	8.403	292.2	12.8	
3	PCC	M15	10/09/2018	17/09/2018	149.33 X 151.73 X 150.47	22658	8.266	267.4	11.8	

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	150.45 X 150.44 X 149.91	22634	8.455	405.2	17.9	17.7
2	PCC	M15	10/09/2018	08/10/2018	151.74 X 149.59 X 151.71	22698	8.314	403.9	17.8	
3	PCC	M15	10/09/2018	08/10/2018	151.31 X 151.14 X 151.22	22870	8.302	397.9	17.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	149.65 X 150.81 X 149.62	22569	8.526	278.4	12.3	12.6
2	PCC	M15	10/09/2018	17/09/2018	150.86 X 151.60 X 149.02	22870	8.315	282.5	12.4	
3	PCC	M15	10/09/2018	17/09/2018	149.76 X 149.69 X 150.73	22417	8.691	291.4	13.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	405.3	17.9	17.7
2	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	PCC	M15	10/09/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	396.0	17.5	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	150.42 X 150.54 X 150.45	22644	8.312	274.0	12.1	12.3
2	PCC	M15	10/09/2018	17/09/2018	150.42 X 150.54 X 150.45	22644	8.331	283.1	12.5	
3	PCC	M15	10/09/2018	17/09/2018	150.32 X 150.54 X 150.35	22629	8.345	278.3	12.3	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

AEE (VRP)

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /06

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	405.3	17.9	17.7
2	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	PCC	M15	10/09/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	396.0	17.5	

Note:

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /07

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	150.42 X 150.54 X 150.45	22644	8.312	285.3	12.6	12.5
2	PCC	M15	10/09/2018	17/09/2018	150.42 X 150.54 X 150.45	22644	8.331	283.1	12.5	
3	PCC	M15	10/09/2018	17/09/2018	150.32 X 150.54 X 150.35	22629	8.345	278.3	12.3	

Note:

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****End of Report****

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-10** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and construction of UGD pit and pipeline in ward no. 11(kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer,KRIDL, #280, 59th cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/97/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-10 /08

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.312	394.0	17.4	17.6
2	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	PCC	M15	10/09/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.345	402.8	17.8	

Note:

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Authorized Signatory
Quality Manager

AEE (VKT) SD

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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